Panasonic

8X PCMCIA CD-ROM Player

Model No. KXL-783A

Operating Instructions



This manual contains the information on handling the player. Please read this manual first. For the information on setting up the driver for use with your computer, please read the Setup Manual enclosed with this manual.

Please read this manual and the enclosed Setup Manual before using. Store these manuals in a safe place for future reference.

Thank you for purchasing the Panasonic 8X PCMCIA CD-ROM Player KXL-783A.

WARNING

- The power source voltage of the AC adaptor is listed on the nameplate. Plug the AC adaptor only into an outlet with the proper voltage.
- To prevent fire or shock hazard, do not expose this product to rain or any type of moisture.

CAUTION

- When you operate this equipment, the mains socket-outlet should be near the equipment and should be easily accessible.
- To prevent the SCSI interface connector from static electricity damage, before you touch it, discharge any static electricity from your hands by touching a grounded metal surface, such as the screw on the plate cover of an electrical outlet.

CAUTION FOR LASER

This product utilizes a laser.
Use of control, adjustment or performance of procedures other than those specified herein may result in hazardous radiation exposure.
Do not open covers and do not repair yourself. Refer servicing to qualified personnel.

Laser diode properties	
Material	GaAlAs
Laser output	Less than 52.65 µW
Wave length	790 nm
Emission duration	Continuous

(This output is the value measured at the distance of 200 mm from the objective lens surface.)

The serial number of this unit may be found on the label located at the bottom of the unit. Write this number below and keep this book along with your proof of purchase to serve as a permanent record of your purchase or for future reference.
For warranty service you may be required to show your proof of purchase records.

MODEL NO. **KXL-783A** NAME OF DEALER _____

SERIAL NO. _____ DATE OF PURCHASE _____

FOR USERS IN UNITED STATES ONLY

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.
This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.
However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The user may find the booklet "Something About Interference" available from FCC local regional offices helpful.

FCC Warning: To assure continued FCC emission limit compliance, the user must use only the recommended shield interfacing cable when connecting to a host computer. Also, any unauthorized changes or modifications to this equipment would void the users authority to operate this device.

- Certain audio features of this product manufactured under a license from Desper Products, Inc.,
  Spatializer® and the circle-in-square device are trademarks owned by Desper Products, Inc.,
- Microsoft, MS-DOS, Windows and Windows NT are registered trademarks of Microsoft Corporation in the United States and/or other countries.
- IBM and OS/2 Warp are trademarks of International Business Machines Corporation.
- Photo CD is a trademark of Eastman Kodak Company.
- Sound Blaster is a trademark of Creative Technology Ltd.

All other brands and product names are trademarks or registered trademarks of their respective companies.

- MS-DOS is the abbreviation of Microsoft ® MS-DOS ® Operating System.
- Windows is the abbreviation of Microsoft ® Windows ® Operating System.
- Windows 95 is the abbreviation of Microsoft ® Windows ® 95 Operating System.
- Windows NT is the abbreviation of Microsoft ® Windows NT ® Workstation Operating System and Microsoft ® Windows NT ® Server network Operating System.

Specifications given in these Operating Instructions are subject to change without notice.

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■ *Features:*

- ***8X Speed external drive (transfer rate Max. 1200 KB/s with AC adaptor).***
- ***Operates on universal voltage AC adaptor*** (☞ P. 9), ***rechargeable battery (option)*** (☞ P. 20) ***or six (6) "AA" size alkaline batteries (not supplied)*** (☞ P. 23).
- ***Can be connected to a notebook/desktop computer which has PCMCIA card slot with supplied Interface card and cable.*** (☞ P.10)
- ***Can be connected to a desktop computer with purchase of SCSI board and SCSI cable.*** (☞ P. 11)
- ***Both CD-ROM and audio CD can be played when attached to your computer.*** (☞ P. 15)
- ***Can be used independently as an audio CD player.*** (☞ P. 13)
- ***Supports CD-ROM, CD-ROM XA, CD-DA, Photo CD (Multisession), CD-i*** *1, ***VIDEO CD*** *1, ***CD Extra.***

  *1 To playback CD-i or VIDEO CD's, software or hardware MPEG decoding capability is required in the computer.

- ***SPATIALIZER delivers 3-Dimensional surround sound. Expands the sound from two conventional speakers.***
- ***PC sound can be heard through built-in stereo speakers of player with the supplied stereo audio cable connected.*** (☞ P. 18)
- ***SCSI-2 Software Command compatible.***

Important:

■ Please use CD-ROMs with the marking below.

COMPACT disc

■ Please use audio CDs with the marking below.

COMPACT disc DIGITAL AUDIO

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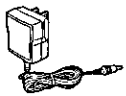
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■ Accessories

Make sure that the following accessories are included with the player. If anything is missing, contact your dealer immediately.



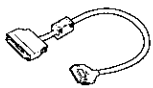
AC adaptor (☞ P. 9)
- The product no. of AC adaptor is written on the bottom of the player.



Setup disk (☞ P. 10)
[Before opening please read P. 32]



Interface card
(PCMCIA Type II)
(☞ P. 10)



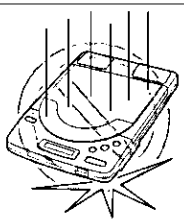
Interface cable
(☞ P. 10)



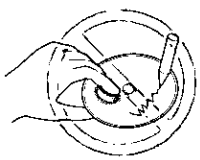
Audio cable
(☞ P. 18)

- Operating Instructions
- Setup Manual
- Warranty card

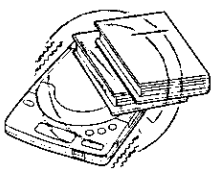
■ Precautions



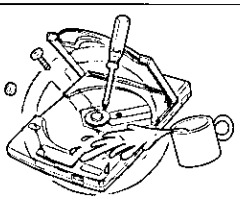
- Do not drop or jar the player.



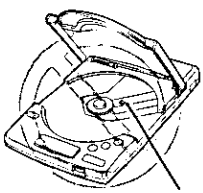
- Do not scratch or smudge the surface of CD.



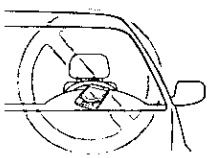
- Do not place heavy objects on the player.
- Do not shake or subject to intense vibration.



- Do not disassemble the player.
- Do not spill liquid.



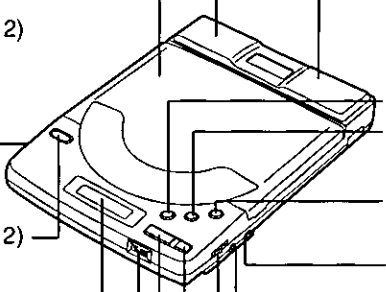
- Do not touch the lens.



- Do not expose the player to direct sunlight or extreme heat. Especially do not leave it in a hot automobile.

- Keep disc cover closed to protect from dust.
- Do not play CD-ROM/audio CD while transporting.
- Do not use near any appliance that may cause vibration.

■ Top/Side view



Built-in speakers (☞ P. 13, 18)

Disc cover (☞ P. 12)

LOCK switch (☞ P. 12)
Locks the disc cover by moving the Lock switch toward the rear of the player.

OPEN button (☞ P. 12)
Opens the disc cover.

Display (☞ P. 8)

VOLUME control (☞ P. 13)
Adjusts the volume of the built-in speakers or headphones (not supplied) attached to the PHONES jack (0~10).

►II /CHG (PLAY/PAUSE/CHARGE button)
Starts/pauses audio CD playback (☞ P. 14) or charges the optional rechargeable battery by pressing this button (☞ P. 21).

MODE button (☞ P. 14)

I◄◄ (Reverse skip/search button) (☞ P. 14)

►►I (Forward skip/search button) (☞ P. 14)

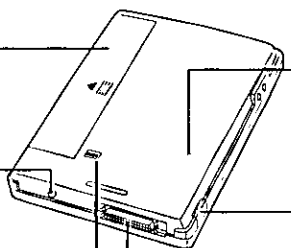
LINE IN jack (☞ P. 18)
Connects the supplied audio cable.

PHONES jack [🎧] (☞ P. 13, 18)
Connects your headphones or external speaker system (not supplied).

SPATIALIZER effect switch
(☞ P. 13, 18) Adjusts the 3-D sound effect level.

■ (STOP button)
(☞ P. 12, 14, 15)

■ Rear/Bottom view



Battery cover
(☞ P. 20, 22, 23)

DC IN jack
[DC IN 13V ⟐⊖⟐]
(☞ P. 9)

DIP switch (☞ P. 28)
Sets the SCSI ID number.
Sets the terminator ON or OFF.

RESET switch (☞ P. 24)
Press this if buttons/switches do not function.

POWER switch [POWER ⏻/I]
(☞ P. 13, 15)
Turns the power on/off.

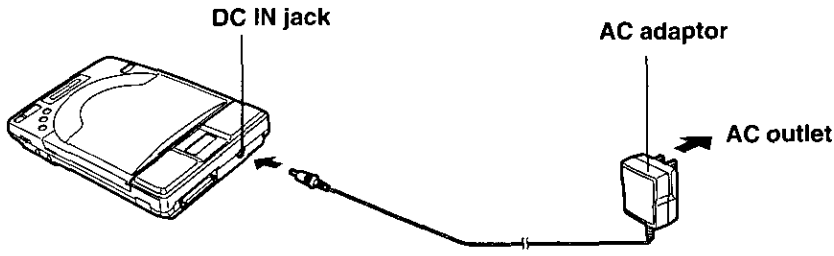
SCSI interface connector [⟐SCSI]
Connects the Interface cable (☞ P. 10) or commercial SCSI cable (☞ P. 11).

■ Display messages

Message/Indication	Description
OPEN	The disc cover is open.
on	When CD-ROM is inserted, a message "on" is displayed. While CD-ROM or audio CD is first being recognized, "on" blinks.
no dISC	CD is not inserted, or the inserted CD is not recognized because either the CD is placed with the label side facing down, or it is damaged, dirty, wet, etc.
BUSY	When CD-ROM data is being transferred, a blinking message "BUSY" appears.
-AUDIO DISC ONLY-	With a CD-ROM (Data CD) inserted in the player, if you press ►II/CHG, ⏮, ⏭ or MODE, a blinking message "AUDIO DISC ONLY" appears. These buttons function only for stand alone audio CD playback.
01 00:00	• Displayed when an audio CD is recognized. • ■ is pressed when an audio CD is being played on the player.
ONE	Pressing MODE changes the audio CD playback mode. This button function only for stand alone audio CD playback. The modes are outlined below. [ONE] (Repeats one track) → [ALL] (Repeats all tracks) → [rand] (Repeats at random) → (Normal mode) → [ONE]
ALL	
rand	
	When the battery is low, this blinking indication appears.
CHG	This blinking indication appears while the rechargeable battery (option) is being charged.

Connecting the AC adaptor

Connect the supplied AC adaptor.



Caution:

- Use only the supplied AC adaptor, since other adaptors could damage the player.

Note:

- If the player is not going to be used for an extended period, unplug the AC adaptor from both the player and AC outlet to save power consumption. (Approximately 1.0 W power is consumed when the player is OFF and the AC adaptor is connected with 120 V outlet.)

■ *Power Save Function (lower consumption mode):*

The player enters the lower consumption mode under the following conditions to save power.
While in the lower consumption mode the laser and spindle motor turn off.

- When using with computer, and no command is sent to the player from the computer for more than 4 minutes. (The player automatically activates when it receives a command from the computer.)
- When using the player independently, the player is paused, and no button of the player is pressed for more than 4 minutes. (The player automatically activates when a button on the player is pressed.)

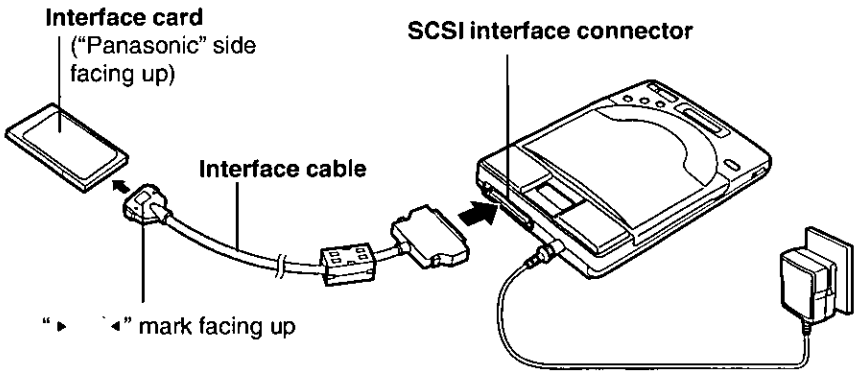
For notebook / desktop computer with PCMCIA card slot (Interface card)

Step 1 Connection

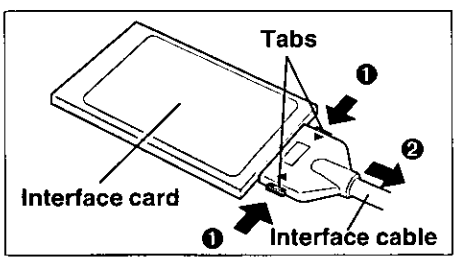
Please use the supplied Interface card and cable to connect between the player and your computer with PCMCIA Type II card slot.

Note:

- Use only the supplied Interface card and cable with this player.



■ *Disconnecting Interface card from Interface cable:*



Pull the Interface cable straight while pressing the side tabs of it.

Caution:

- Do not force the Interface cable, since this could damage the Interface card or cable.

Step 2 Setting up your computer

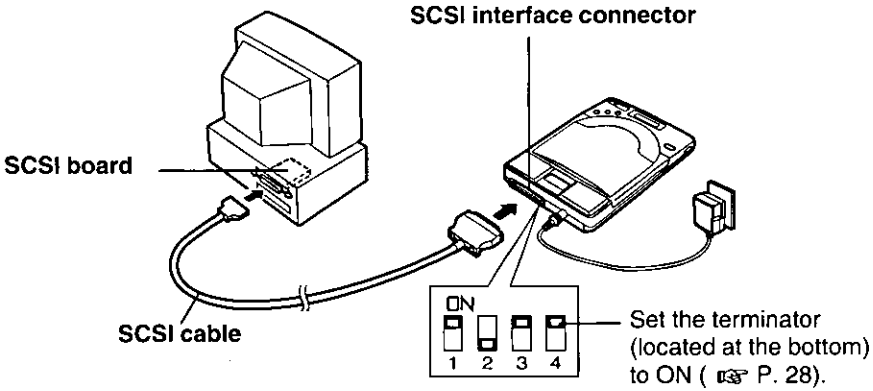
To use the player with a computer, you must set up your computer using the supplied Setup disk.
Please refer to the enclosed Setup Manual.

For desktop computer with SCSI board

Step 1 Connection

A commercial SCSI board and SCSI cable are required to connect the player to a desktop computer without PCMCIA card slot. For a recommended SCSI board, refer to "Option/ Recommended Products" (☞ P. 31). For further information, refer to your SCSI board manual.

First make sure both the player and the desktop computer are off.



Cautions for a SCSI cable:

- Use a shielded SCSI cable of 1.5 m (4.9 ft.) or shorter.
- Plug half-pitch or full pitch end into computer and the half-pitch end into the player.

■ *Daisy chain connection:*

You can connect this player to other SCSI devices (up to seven devices). Make sure that each SCSI device has different SCSI ID number.
For the setting of SCSI ID number and terminator of this player, refer to "SCSI ID Number and Terminator Setting" (☞ P. 28).
Since the player has only one SCSI connector, it must be the last device in the daisy chain. In this case, set the terminator to ON.

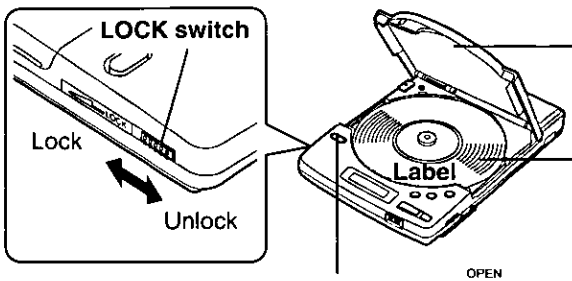
Step 2 Setting up your desktop computer

To use the player with your desktop computer, you must setup your computer. **Please refer to the enclosed Setup Manual.**

Inserting / Removing a CD

Inserting a CD

Make sure that the LOCK switch is not moved toward the rear of the player.



3 **Close the disc cover.**

2 **Place a CD onto the center spindle.**
Press on the center of a CD until it locks onto the spindle.

1 **Press OPEN to open the disc cover and then raise it.**

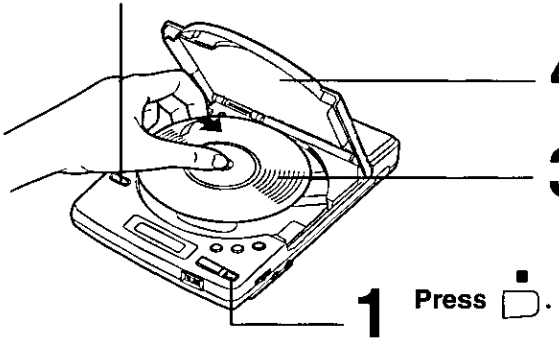
Note:

- When transporting the player, remove the CD and move the LOCK switch toward the rear of the player, otherwise the disc cover may open and the player or the CD could get damaged.

Removing a CD

Make sure that a blinking message "BUSY" does not appear on the player's display, and the LOCK switch is not moved toward the rear of the player.

2 **After the CD stops spining, press OPEN to open the disc cover and then raise it.**



4 **Close the disc cover.**

3 **Carefully remove the CD by lifting it.**
Pressing on the center spindle, lift the CD by holding its edge.

1 **Press ■.**

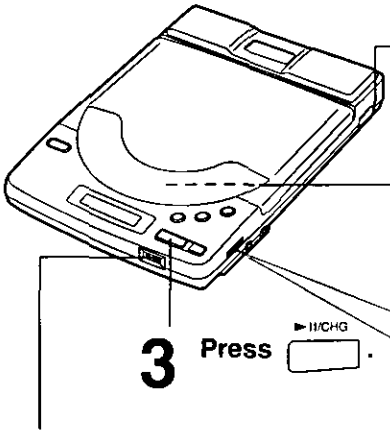
Playing an audio CD

You can listen to the music through the player's built-in speakers or your headphones/ external speaker system (not supplied) connected to the PHONES jack.
The player is not specially designed to be used while walking, etc.

Caution:

- It is not safe to listen to headphones while driving a car.

Be sure the VOLUME control is turned down (set to 2~4) before playing an audio CD.



1 **Press POWER switch to turn on the player.**

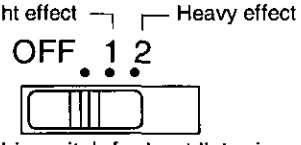
2 **Insert an audio CD** (☞ P. 12).



3 **Press** ►II/CHG.

4 **Rotate the VOLUME control to adjust the volume.**

SPATIALIZER effect switch

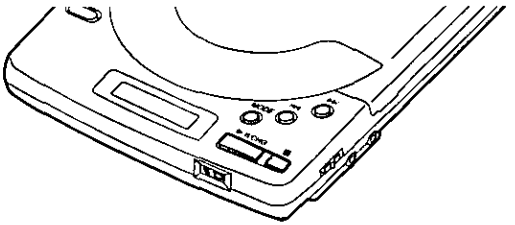


Adjust this switch for best listening enjoyment.

Notes:

- If the sound attribute is monophonic, the SPATIALIZER function is not very effective.
- It is recommended that the terminator of the player is set to OFF. Power consumption can be saved (☞ P. 28).

■ *Buttons function and operation:*



Function	Operation
Starts/pauses audio CD playback.	Press ►II/CHG.
Stops playing an audio CD.	Press ■.
Skips to the next track number.	Press ⏭ once when the elapsed time is 00:00.
Skips to the previous track number.	Press ⏮ once when the elapsed time is 00:00.
Advances to your desired point.	Keep pressing ⏭.
Reverses to your desired point.	Keep pressing ⏮.
Repeats the track being played.*	Press MODE until "ONE" is displayed.
Repeats all tracks.*	Press MODE until "ALL" is displayed.
Repeats tracks at random.*	Press MODE until "rand" is displayed.

* Every time MODE is pressed, the mode changes in the following order.

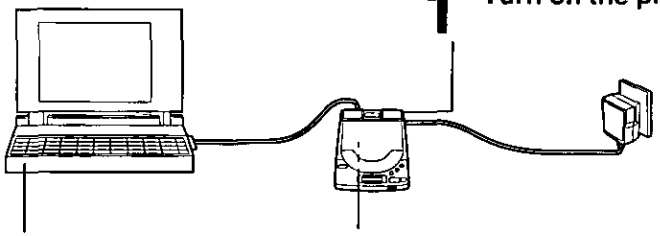
→[ONE] ⟶ [ALL] ⟶ [rand] ⟶ (Normal mode) ⟶

Notes:

- To cancel the Repeat mode (*), press ■. The mode is returned to Normal mode.
- When the blinking message "on" is displayed, the buttons ►II/CHG, ⏭, ⏮, MODE and ■ can not be used.

Using the Player with Computer

Make sure that all the necessary preparation is done (☞ P. 9~11) and your computer has been set up properly (☞ Setup Manual).



1 **Turn on the player.**

2 **Turn on your PC.**

3 **Insert a CD** (☞ P. 12).

Notes:

- When "BUSY" is displayed on the player's display;
  — Do not open the disc cover.
  — Do not press ■ .
  — Do not disconnect the Interface card.
  — Do not turn off the player.
  Otherwise, your computer may hang up. If this happened, reset your computer.
- To remove a CD from the player, exit an application, press ■ , then remove the CD.
- When using the player with battery if " ▭ " is displayed on the player's display, quickly connect the AC adaptor. Otherwise your computer may hang up.
- When using battery, you might notice the data transfer speed slows and access time increases.

- When ■ is pressed, a CD stops playing. To resume playing the CD, send a command from the computer to the player.

Playing a CD-ROM

To use a CD-ROM, refer to the manual attached with a CD-ROM or "README" file included on the CD-ROM.

Playing an audio CD

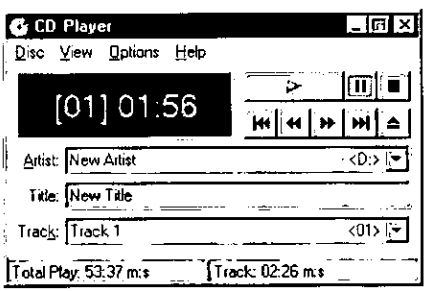
To operate an audio CD on a computer, install an audio CD control software (not supplied), if it is not already installed on your computer.

■ *Running the software under Windows 95:*

You can use either of the following methods **A** or **B**.

A Select "**Multimedia**" from the Accessories group of Program Menu to start "**CD Player**".

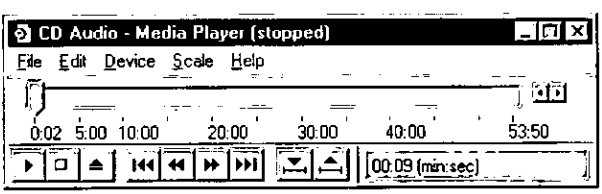
(Example)



B 1. Select "**Multimedia**" from the Accessories group of Program Menu to start "**Media Player**".

2. Select "**CD Audio**" from the Device menu.

(Example)

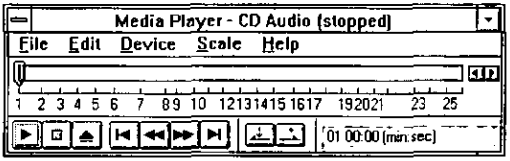


- If an audio CD control software is not installed, install the software using "Add/Remove Programs" in Control Panel. For detailed information, refer to your Windows 95's manual or "README95.TXT" file (☞ P. 5 in Setup Manual).

■ *Running the software under Windows 3.1, 3.11 / Windows NT:*

1. Start "**Media Player**" from the Accessories program group.
2. Select "**CD Audio**" from Device menu.

(Example)

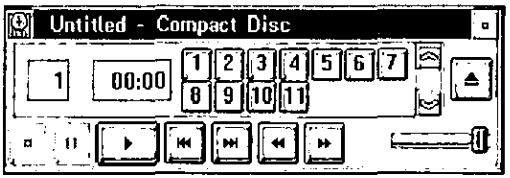


- If the "CD Audio" is not displayed, install the Windows device driver "[MCI] CD Audio" from the Drivers in Control Panel. For detailed information, refer to the manual of Windows 3.1, 3.11/Windows NT or "README.TXT" file (☞ P. 8 or 11 in Setup Manual).

■ *Running the software under OS/2 Warp:*

Start "**Compact Disc**" from the Multimedia program group.

(Example)



Note:

- While playing an audio CD with a computer, the buttons ⏯/CHG, ⏭, ⏮ and MODE on the player can not be used.

  However when you are using the audio CD control software in the Operating System other than Windows 95 if you exit the audio CD control software, the buttons on the player become function after opening and closing the disc cover. For the functions of buttons, refer to "Buttons function and operation" (☞ P. 14).

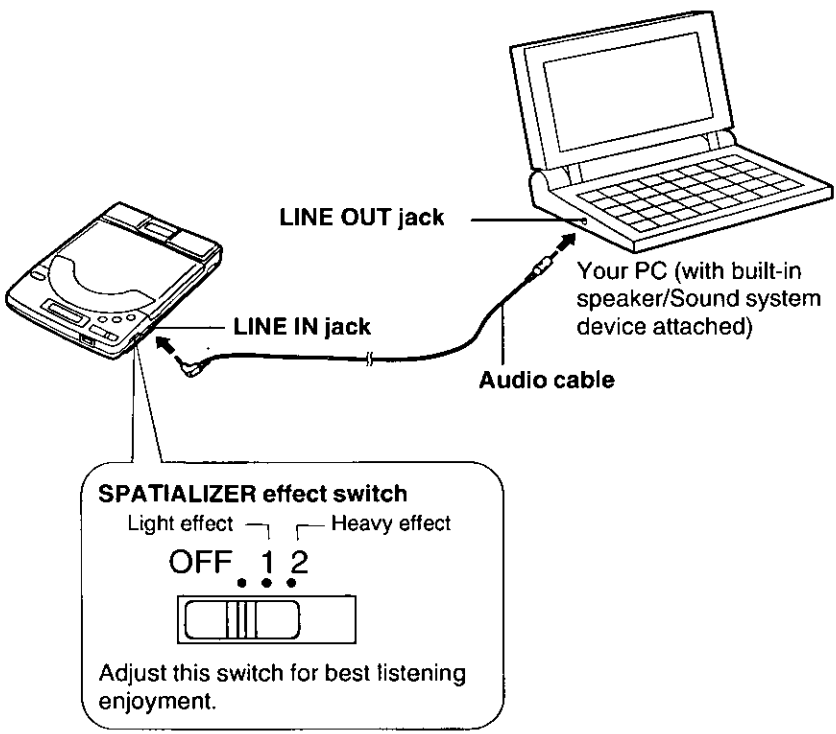
Listening to PC sound through the player

PC sound can be heard through the player's built-in speakers or headphones attached to the player's PHONES jack by connecting the supplied Audio cable to the computer's LINE OUT jack and to the player's LINE IN jack.

Notes:

- Whenever connecting/disconnecting the audio cable, be sure that the player's VOLUME control is set to the lowest level (0).
- If the sound attribute of the computer is monophonic, the SPATIALIZER function is not very effective.

Connect the supplied Audio cable.



Insertion / Removal of the Interface card

■ *For Windows 95 user:*

The supplied Interface card supports the Hot Swapping (Plug & Play) function. With the computer turned on, you can insert/remove the Interface card without fear of hardware damage.
Before removing the Interface card, perform the following steps.

1 **Click PC Card icon in task bar.**



2 **Click "Stop Panasonic KXLC003".**



3 **Make sure that the message "You may safely remove this device" is displayed, then click OK.**

4 **Remove the Interface card.**

■ *For DOS / Windows 3.1, 3.11 / OS/2 Warp user:*

With the computer turned on, you can insert/remove the Interface card.
For DOS/Windows 3.1, 3.11, a PC Card Manger needs to be installed in advance. Refer to your computer manual.
However, when the message "BUSY" is displayed on the player's display, or you start running your computer, make sure that the Interface card is inserted into the PCMCIA card slot and the player is on.

Note:

- If your computer has more than one slot, and if you want to re-insert the Interface card, you must insert it into the same slot it was inserted before.

■ *For Windows NT user:*

With the computer turned on, you **can not** insert/remove the Interface card. Please turn off your computer to insert/remove the Interface card.

Using Rechargeable Battery (option)

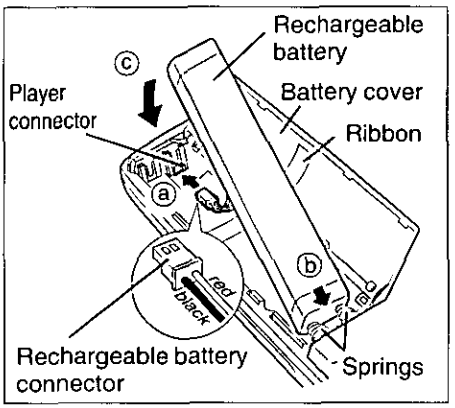
Optional rechargeable battery (KXL-D30) needs to be purchased. Before initial use, please fully charge the rechargeable battery (☞ P. 21).

Note:

- When using the rechargeable battery, you might notice the data transfer speed slows and access time increases.

Installing rechargeable battery

Make sure the AC adaptor is disconnected.



1. **Open the battery cover by sliding and lifting it up.**
2. **Insert the rechargeable battery connector into the player connector (ⓐ).**
3. **Install the rechargeable battery (ⓒ) placing the ribbon underneath it and pressing the springs (ⓑ).**
4. **Close the battery cover by pressing it down and sliding it back.**

Notes:

- Make sure that the battery's connecter cable is fixed inside the battery cover, otherwise the cable could get damaged.
- If the player is not going to be used for more than two (2) months, remove the rechargeable battery to maintain the battery life.

- Power Save Function is effective (☞ P. 9).
- When an audio CD is played in the Normal mode on the player using the rechargeable battery, the power automatically goes off after the last track has been played.

Charging rechargeable battery

Charge the rechargeable battery:

- Before initial use.
- When the blinking mark "  " appears on the player's display.

Caution:

- Do not attempt to charge the rechargeable battery using a charger other than this player.

1 **Install the rechargeable battery** (☞ P. 20 "Installing rechargeable battery").

2 **Connect the supplied AC adaptor** (☞ P. 9).

3 **Turn on the player by pressing the POWER switch.**

4 **Press**  **on the player until the blinking mark "CHG" appears.**

Charging starts and it will finish automatically when the mark "CHG" disappears and the power goes off. A full battery charge requires a maximum of three (3) hours.

- To stop charging, turn off the power.

Notes:

- The charging time may change depending on the charging capacity of the rechargeable battery.
- While charging, no other operation can be performed.
- If the blinking mark "  " appears on the player's display while using the rechargeable battery with the computer attached, quickly connect the AC adaptor. Otherwise the computer may hang up.

■ *Supplemental charging function:*

Charging starts automatically when the rechargeable battery is installed, the AC adaptor is connected and the power is on. While being charged the mark "CHG" does not appear on the player's display.

In this case, a full charge may not be done. To charge the rechargeable battery fully, follow the steps 1 to 4 above.

Refreshing rechargeable battery

If the rechargeable battery seems to run down sooner than usual (maybe because of repetitive short-term charging and discharging), refresh the rechargeable battery two to three times by following the instructions below.

1 Disconnect the player from your computer and the AC adaptor.

2 Play an audio CD repeatedly to completely consume the rechargeable battery.

- Press MODE ○ until "ALL" is displayed and play an audio CD repeatedly until the "▭" mark appears and the power goes off.

3 Connect the AC adaptor, turn on the player and press ▶II/CHG ▭ on the player until the blinking mark "CHG ▭" appears.

4 Charge the rechargeable battery until the mark "CHG ▭" disappears and the power goes off.

Replacing rechargeable battery

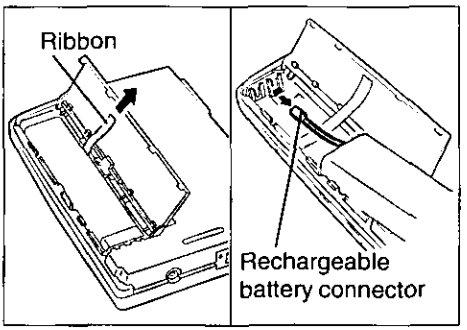
Replace the rechargeable battery:

- If the rechargeable battery quickly runs down even after refreshing (it has reached the end of its life).

Note:

- The rechargeable battery will cycle approximately 300 times under optimum condition.

■ *Removing the rechargeable battery:*



❶ Open the battery cover.

❷ Pull the ribbon upward.

❸ Disconnect the rechargeable battery connector by pulling its cable carefully, then remove the rechargeable battery.

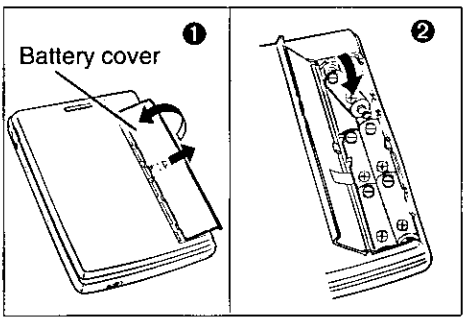
❹ Close the battery cover.

Using Alkaline Batteries (not supplied)

Six (6) "AA" size alkaline batteries are required.

Alkaline battery Precautions:
If improperly used, the batteries may leak and cause corrosion. Therefore, observe the following:

- Install batteries according to the diagram.
- Do not mix old and new batteries, or carbon and alkaline battery types.
- Remove all batteries when not using the player for extended periods.
- **Do not charge, short-circuit, disassemble, heat, or dispose of in fire.**

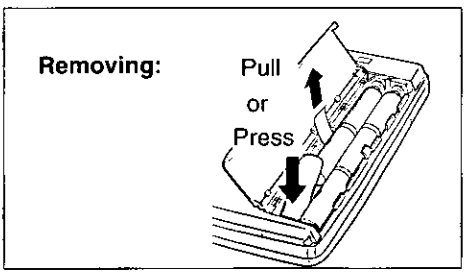


❶ Open the battery cover by sliding and lifting it up.

❷ Install six (6) "AA" size alkaline batteries (not supplied) placing the ribbon underneath them.
Make sure the polarities (+, –) match the diagram.

❸ Close the battery cover by pressing it down and sliding it back.

■ *Replacing the Batteries:*



Replace the batteries when blinking mark " ▭ " appears on the player's display.

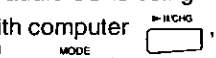
Notes:

- When using alkaline batteries, you might notice the data transfer speed slows and access time increases.
- If the blinking mark " ▭ " appears on the player's display while using the alkaline battery with the computer attached, quickly connect the AC adaptor. Otherwise the computer may hang up.

- Power Save Function is effective (☞ P. 9).
- When an audio CD is played in the Normal mode on the player using alkaline batteries, the power automatically goes off after the last track has been played.

Troubleshooting

If trouble occurs, check the following points before returning the player for service.

Trouble	Possible Cause	Solution
Turn on the POWER switch, but nothing appears on the display.	AC adaptor is not plugged into the outlet or DC IN jack correctly.	Plug the AC adaptor correctly (☞P.9).
	The Auto Protect function of AC adaptor is working.	Disconnect the AC adaptor and connect it again after 2~3 minutes.
	The alkaline batteries or rechargeable battery are/is not installed correctly, or dead.	Install the alkaline batteries/rechargeable battery properly, charge the rechargeable battery or replace with new batteries (☞P.20~23).
An audio CD is inserted and the power is on, but buttons on the player do not function.	When an audio CD is being played with computer  , ◯ , ◯ or ◯ is pressed.	While playing an audio CD with computer, the player's buttons do not function.
The player can not be turned off.	System lockup.	Press RESET switch located at the bottom of player by using a pointed object like a pen (do not use a pencil).
Player (especially center spindle), rechargeable battery, AC adaptor or Interface card is warm.		This is not abnormal. If they become hot, consult your dealer.
Disc cover can not be opened.	The LOCK switch is moved toward the rear of the player.	Move the LOCK switch to opposite direction.
The optional rechargeable battery can not be charged.	AC adaptor is not connected, the rechargeable battery is not installed or POWER switch of the player is not on.	Connect the AC adaptor, install the rechargeable battery or turn on the POWER switch of the player.
The optional rechargeable battery runs down too soon.	The rechargeable battery capacity has been reduced and the battery life has been shortened by being charged too often after using for short periods.	Refresh the rechargeable battery (☞ P. 22). If the battery runs down quickly even after refreshing, replace with new one (☞ P. 22).

Trouble	Possible Cause	Solution
Your computer does not recognize the player, or does not function properly.	Your computer is not setup correctly.	Set up your computer correctly (☞ Setup Manual).
	Computer is turned on before turning on the player.	Turn on the player, then turn on your computer.
	■ For notebook/desktop computer with PCMCIA card slot user: The Interface cable or card is not connected to the player or to the computer properly.	Properly connect the Interface cable or Interface card (☞ P. 10).
	The Interface cable pin is bent or broken.	Contact Panasonic Service Center (1-800-PANASYS).
	■ For desktop computer with SCSI board user: The SCSI cable is not connected to the player or to the desktop computer properly.	Properly connect the SCSI cable (☞ P. 11).
	There are duplicate SCSI ID numbers for devices in your system.	Set a different SCSI ID number for each device in your system (☞ P. 28).
	The player's terminator is set to OFF.	Set the terminator to ON (☞ P. 28).
Transmission speed of data slows down.	Using the player with the alkaline batteries/rechargeable battery.	Use the AC adaptor.
	The notebook computer has entered the power management mode.	Set the CPU speed of the notebook computer faster in power management or use the AC adaptor.

Trouble	Possible Cause	Solution
"no dISC" message appears on player's display even after inserting a CD. Sound skips, or data can not be read.	CD is placed with the label side facing down.	Place the CD with the label side facing up (☞ P. 12).
	CD without  or  mark is used.	Use the CD marked with  or  .
	CD may have become dirty.	Clean the CD (☞ P. 27).
	CD is damaged.	Replace with another CD.
	Dust such as a hair lay on the center spindle.	Clean the center spindle.
	The player or/and CD are damp or moist, because the player or/and CD may have been moved from a cold place to a warm place.	Remove the CD from the player and do not use the player and CD for 1 hour.
You can not listen to computer sound through the built-in speakers of the player.	Headphones are connected to the PHONES jack of the player.	Disconnect the headphones.
	The player's VOLUME control is set to "0".	Set the player's VOLUME control to a higher level.
	■ When listening to PC sound: The Audio cable is not connected to the player's LINE IN jack and to the computer's LINE OUT jack properly.	Connect the Audio cable properly (☞ P. 18).
	The volume of the computer is set to OFF.	Set the computer's volume to ON. Your computer may have both software and hardware volume control. Please check the level of both.
	The volume is set to the lowest level in the "Volume Control" or "Mute" is selected on the software control of the sound device.	Set the volume higher level, or cancel the Mute selection.

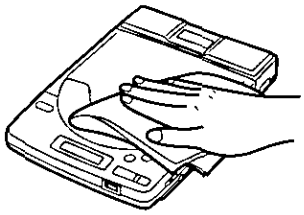
Maintenance

■ *Player:*

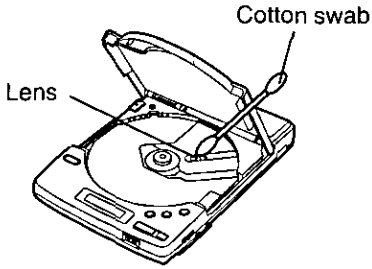
Cautions:

- Do not use benzine, thinner, etc.
- Do not use commercial lens cleaner.

Clean the outside of the player with a soft, dry cloth.



Clean the lens with a dry cotton swab or a lens blower.



■ *CD:*

Cautions:

- Do not use solvents such as benzine, record cleaners or anti-static spray for records.
- Do not touch the signal side.
- Do not attach the labels to the disc.
- Do not write on the surface of disc with a pointed object like a pen.

Wipe from the center to the edge with a dry, soft cloth.



SCSI ID Number and Terminator Setting

■ *SCSI ID number:*

Each SCSI device connected to your computer system can be assigned an individual ID number (refer to the respective manuals). Be sure that the CD-ROM SCSI ID number is not the same as another SCSI device connected to the computer system.
The factory setting of the player's SCSI ID number is set to **5**.

■ *Terminator:*

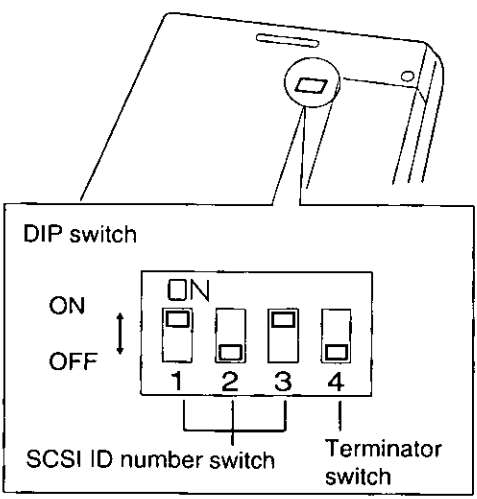
The factory setting is **OFF**.

ON:
- When the desktop computer is connected with a SCSI board (not supplied) (☞ P. 11). If SCSI devices are connected, set their terminators to OFF.

OFF:
- When using independently as an audio CD player (power consumption can be saved) (☞ P. 13).
- When the supplied Interface card is used to connect to a computer (☞ P. 10) (power consumption can be saved).

Setting

Make sure the player is off.
Set the SCSI ID number switch (1~3) or Terminator switch (4) ON/OFF by using a pointed object like a pen (do not use a pencil), and referring to the table below (for SCSI ID number).



Example: SCSI ID number=5 / Terminator=OFF

(For SCSI ID number setting)

SCSI ID number	SCSI ID number switch		
	1	2	3
0	OFF	OFF	OFF
1	ON	OFF	OFF
2	OFF	ON	OFF
3	ON	ON	OFF
4	OFF	OFF	ON
5	ON	OFF	ON
6	OFF	ON	ON
7*	ON	ON	ON

☐: **Factory setting**

* Do not use "7" for player's SCSI ID No., since it is used for the Interface card or SCSI board.

Specifications

<table>
<tr><td>Operating Environment (under no damp or moist conditions):</td><td>Temperature: 5°C {41°F} to 35°C {95°F}
Humidity: 20% to 85% RH</td></tr>
<tr><td>Storage Environment (Non-condensing):</td><td>Temperature: –20°C {–4°F} to 55°C {131°F}
Humidity: 15% to 85% RH</td></tr>
<tr><td>Dimensions:</td><td>138 (W) × 204 (D) × 35 (H) mm {5.52″ × 8.16″ × 1.4″}</td></tr>
<tr><td>Mass {Weight}:</td><td>Approx. 515 g {1.102 lbs.} (without batteries)</td></tr>
<tr><td>Power Source:</td><td>Refer to the nameplate at the bottom of the unit.</td></tr>
<tr><td>Interface:</td><td>SCSI-2 (Player), PCMCIA 2.1 (Interface card)</td></tr>
<tr><td>SCSI Connector:</td><td>Half-pitch 50-pin</td></tr>
<tr><td>Buffer Size:</td><td>128 KB</td></tr>
<tr><td>MPC:</td><td>MPC level 2, level 3*1 (The capability differs depending on the PC or software.)</td></tr>
<tr><td>Battery Life*2 [at 20°C {68°F}]:</td><td>• When using Panasonic “AA” size alkaline batteries continuously
<table>
<tr><td></td><td>PHONES jack</td><td>Built-in speakers*3</td></tr>
<tr><td>Audio CD</td><td>Approx. 3.5 h</td><td>Approx. 3 h</td></tr>
<tr><td>CD-ROM</td><td>Approx. 2.5 h</td><td>Approx. 2.5 h</td></tr>
</table>
• When using the optional rechargeable battery continuously
<table>
<tr><td></td><td>PHONES jack</td><td>Built-in speakers*3</td></tr>
<tr><td>Audio CD</td><td>Approx. 1.5 h</td><td>Approx. 1.5 h</td></tr>
<tr><td>CD-ROM</td><td>Approx. 1.5 h</td><td>Approx. 1.5 h</td></tr>
</table></td></tr>
<tr><td>Data Transfer Rate (when using AC adaptor):</td><td>1200 KB/s (8X Velocity mode)*4
150 KB/s (Normal Velocity mode)</td></tr>
</table>

*1 When desktop computer is connected and using Windows 3.1, 3.11.
*2 When using “SPATIALIZER” function or using the player with the terminator ON, this may become shorter.
*3 Rated at 30 mW+30 mW output.
*4 To conserve power, the data transfer rate becomes 600 KB/s under the following conditions.
- When using optional rechargeable battery or “AA” size alkaline batteries.
- When a warped CD vibrates or the disc is not properly seated.

Access Time* (when using AC adaptor): (The information is based on the test results measured by Panasonic test software.)	1/3 stroke access time 180 ms typical Full stroke access time 280 ms typical	
Power Consumption:	• When playing CD-ROM Approx. 15 W [with AC adaptor] • When player is off Approx. 1 W [when AC adaptor is connected with 120 V outlet]	
Compatible CD, CD-ROM Format:	CD-DA (Audio CD) CD-ROM (Mode 1 and Mode 2 Form 1) CD-ROM XA (Mode 2 Form 2) Photo CD (Multisession) CD-i VIDEO CD CD Extra	
Error Rates:	Soft read errors Hard read errors	Less than 10^{-9} Less than 10^{-12}
Audio Performance:		
Phones out (stereo):	S/N Output level	More than 80 dB (A Range) 14 mW (EIAJ) (impedance 16 Ω)
Line in (stereo):	Input level	1.2 Vrms or lower (impedance 10 kΩ or higher)
Built-in speakers:	Output level	1 W+1 W (impedance 8 Ω)
Interface Card and Interface Cable:	Power source Card type Card dimensions SCSI connector Cable Length Data transfer rate Mass (Weight) (with cable)	DC 5 V, approx. 80 mA PCMCIA Type II 54 (W) × 85.6 (D) × 5 (H) mm {2.13″ × 3.37″ × 0.20″} Half-pitch 50-pin (pin type) 350 mm (without connector) 7.0 MB/s (MAX.) 120 g {0.3 lb.}
Audio Cable:	Plug Cable Length	ø3.5 mini stereo plug 800 mm

* When using optional rechargeable battery or "AA" size alkaline batteries, the access time increases.

Option / Recommended Products

Option

The following option is available through your local Panasonic authorized parts distributor.

Model No.	Model Name
KXL-D30	Rechargeable Battery (Ni-Cd)

Recommended Products (for Windows 95, DOS / Windows 3.1, 3.11)

■ ***To listen to a PC sound on a computer with no built-in sound system device:***

Common name	Product name (Maker)
Sound System For Notebook user	PORT-ABLE Sound (DSP Solutions, Inc.)
Sound board*1 For desktop (DOS)	Sound Blaster series (Creative Technology Ltd.)

*1 Some Sound boards also serve a SCSI board function. For the detailed information, please consult your dealer.

■ ***To use CD-i or VIDEO CD:***

Common name	Product name (Maker)
MPEG PLAY VIDEO Card	REAL Magic Pro (Sigma Designs, Inc.)

■ ***To connect the player to a desktop computer without PCMCIA card slot:***

Common name	Product name (Maker)
SCSI board	AHA-154X, AHA-2940 (Adaptec, Inc.)

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FOR USERS IN CONTINENTAL UNITED STATES ONLY

Technical Support and Service Parts Calls

If you have read this manual and Setup Manual and tried the troubleshooting procedures, and you are still having difficulty, please contact the store from which the unit was purchased. Panasonic Communications & Systems Company will repair this product with new or refurbished parts free of charge for two (2) years from the date of purchase.

You may also call the technical support telephone number (24 hours/7 days).

The technical support number is: 1-800-PANA-SYS (1-800-726-2797)
The service parts number is: 1-800-332-5348

Software drivers are sometimes up dated. You can download the latest driver or new setup disk via your modem.
Internet-www.PANASONIC.com or BBS @ 201-863-7845.

This product is designed for use only in the country where it was purchased.

Panasonic Computer Peripheral Company
Division of Panasonic Communication & Systems Company
Unit of Matsushita Electric Corporation of America
Two Panasonic Way, Secaucus, New Jersey 07094

Panasonic Sales Company
Division of Matsushita Electric of Puerto Rico, Inc.
San Gabriel Industrial Park, 65th Infantry Avenue KM. 9.5
Carolina, Puerto Rico 00630

Matsushita Electric of Canada Limited
5770 Ambler Drive, Mississauga, Ontario, L4W 2T3

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